

इंटरनेट

मानक

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Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10928 (1984): Table, Tilting, Manual [MHD 10: Medical Laboratory Instruments]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

(Reaffirmed 2002)

SPECIFICATION FOR
TABLE, TILTING, MANUAL

1. **Scope** — Covers dimensional and other requirements for manual tilting table used for therapy of orthopaedically handicapped cases.
2. **Shape and Dimensions** — Shape as shown in Fig. 1. The major dimensions are as given in Table 1.

TABLE 1 MAJOR DIMENSIONS OF TILTING TABLE					
	Table Top			Frame	
	Width	Length	Height from Floor	Overall Width	Length
	± 10	± 20	± 10	± 10	± 15
Adult	610	1980	800	800	1 100
Child	500	1520	710	700	900

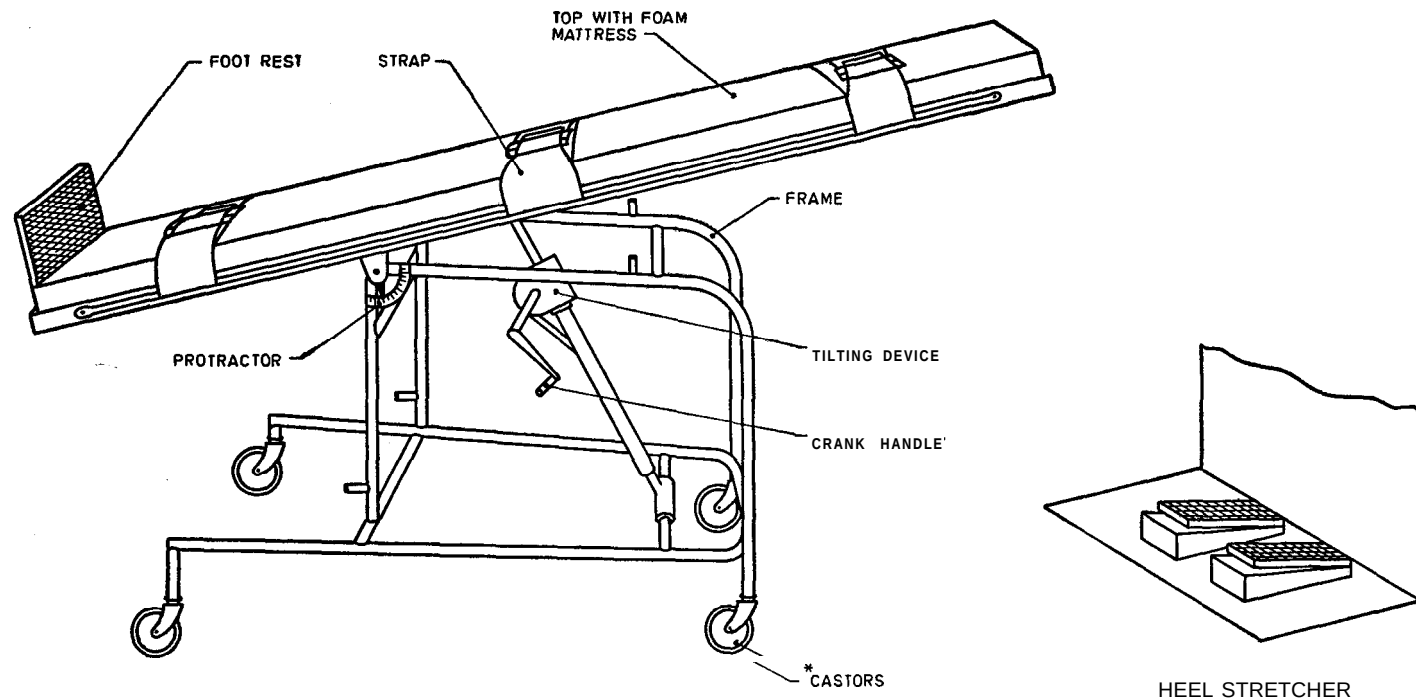
3. Materials

- 3.1 *Tube* — ERW or CEW type conforming to IS : 2039-1979 ' Specification for steel tubes for bicycle and allied purposes (*first revision*)'. The overall diameter of the tube shall be 31.5 mm and thickness as 1.60 mm, subject to deviations as specified in the standard.
- 3.2 *Rods, Strips, Angle Iron and Flats* — Mild steel, cold-rolled or hot-rolled quality. The angle iron shall be of size 30 × 30 × 5 mm, rod of 12 mm diameter, strips as 3.15 mm thick and flats as 6.0 mm thick, subject to deviation of ± 2.5 percent.
- 3.3 *Top* — Plywood, conforming to IS : 303-1975 ' Specification for plywood for general purposes (*second revision*)' 12 mm thick subject to deviations as specified in the relevant Indian Standard.
- 3.4 Other components like gearing system shall be made from materials which resist wear during normal manipulation.
- 3.5 Handles provided shall be made from well seasoned hard wood free from defects for plastics which can withstand actions of mild acids.
- 3.6 *Castors* — Castors as per IS : 4034-1979 ' Specification for castors for hospital equipment (*first revision*)' with locking arrangements.
- 3.7 *Straps* — Cotton duck of 500 g conforming to IS : 1422-1977 ' Specification for cotton duck (*second revision*)'.
- 3.8 *Buckles* — Buckles conforming to IS : 4274-1981 ' Specification for buckles (*first revision*)'.

4. Construction

- 4.1 *Framework* — It shall have framework of continuous lengths of mild steel tubes as shown in Fig. 1 securely welded to give the desired shape. The floor ends of the tubular framework shall be fitted with castor wheels of Designation 100 conforming to IS : 4034-1979 with locking arrangement.

Artificial Limbs Sectional Committee, CPDC 20; Rehabilitation Equipment Subcommittee, CPDC 20 : 2 [Ref : Doc : CPDC 20 (1665)]



*See IS : 4034-1979 ' Castors for hospital equipment (first revision) '.

FIG. 1 TABLE, TILTING, MANUAL

4.2 Table Top — The table top shall be made from plywood sheet with the framework of mild steel angle iron. The table top shall be capable of tilting from the horizontal to the vertical position that is from 0° to 90°. A protractor shall be provided to indicate the degree of tilt. A latex foam mattress of 35 mm thick shall be fixed on table top for comfort of the patient. The mattress shall be covered with the expanded **vinyle** coated fabric.

5. Workmanship and Finish

5.1 The various components shall be made accurately to give smooth operation with minimum effort.

5.2 While operating the crank, there shall be no jerk and movement of the top shall be smooth.

5.3 Three heavy duty restrainer straps shall be provided for holding **the** patient securely on the table. The width of the straps at the hip end shall be 150 mm which shall be narrowed down to 100 mm for fixing of the buckles. However, for the leg-end and head-end portion the width of the strap shall be 100 mm approx.

5.4 A footrest shall be provided which shall have a non-slip surface. Heel-stretcher as shown in Fig. 1 may also be provided as optional.

5.5 Two rods shall be fixed at the lateral ends of the table so that the retainer straps could pass through it.

5.6 All surfaces of the table shall be well finished and shall not have defects, such as pin holes, blisters, blow holes and similar other defects.

5.7 All edges shall be rounded off..

5.8 All welded joints shall have welds fully penetrating and shall be well finished.

5.9 Handles shall extend out of frames for ease of operation.

5.10 Corrosive surfaces like steel tubes, shall be painted in accordance with the **colours** as specified in IS : 4033-1968 'General requirements for hospital furniture, namely white, off-white or sea-green,

5.11 Prior to painting the surfaces shall be degreased, made rust free, suitably protected by an anti-corrosive primer, either by brushing or spraying and then finished by spraying in stove enamel or air-drying enamel of the specified shade with minimum of two coats. In every instance each coat shall be separately stoved or air-dried as the case may be. The resulting finish shall be hard and shall not readily chip or flake.

5.12 The painting shall satisfy the adhesion test as given in **6.1.1** of IS : 4033-1968 and ball dropping test as specified in IS : 101-1964 'Methods of tests for ready mixed paints and enamels'.

5.13 Parts, such as crank handle, restrainer supports shall be plated according to Service Grade 2 of IS : 1068-1968 'Specification for electroplated coatings of nickel and chromium on iron and steel (**first revision**)'.

5.14 The handles shall have an easy grip and shall not impart **colour** or stain to the hand. Wooden handles, if provided, shall be linseed oil. coated or varnished. The handles shall be easily replaceable.

6. Performance Test

6.1 A dead weight of 100 kg shall be hanged from the edge of table top when kept at an **angle of** 45° for a period of 5 minutes. There shall be no movement of the table top and no part of the table shall be damaged after the test.

6.2 The table top shall move from horizontal to vertical position in not more than 100 revolutions of the crank.

7. Instructions for Use and Maintenance

7.1 Table shall be accompanied by an instruction manual giving the following information:

- a) Brief instructions for installation and maintenance.
- b) Any special instructions for safe handling of the table.

8. Marking

8.1 Each table shall have a name plate fixed to it showing the following:

- a) Manufacturer's name, initials or recognized trade-mark.

8.1.1/IS/ Certification Marking — Details available with the Indian Standards Institution.

9. Packing -As agreed to between the purchaser and the supplier.